

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Supernatural Brand Superlicious 3-0-0		[WHMIS Classification]	
Product Use Water Soluble Plant Fertilizer			
Manufacturer's Name Rapidgrow Industries Inc.		Supplier's Name Same as manufacturer.	
Street Address 20203 113B Ave.		Street Address	
City Maple Ridge	Province BC	City	Province
Postal Code V2X 0Z1	Emergency Telephone 604 465 1344/ 604 868 1698	Postal Code	Emergency Telephone
Date MSDS Prepared 2012-10-13	MSDS Prepared By Brian Franczuz	Phone Number 604 868 1698	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
Magnesium Sulfate Anhydrous	66	7487-88-9	NA	
Sodium Nitrate	20	7631-99-4	Oral Acute: LD50 1267 mg/kg [Rat], 2680mg/kg	[Rabbit]

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry <input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion
[Emergency Overview]
[WHMIS Symbols]
[Potential Health Effects] Eyes - Irritation and burns. Skin - Irritation and burns. Inhalation - Nose, throat and lung irritation with coughing, wheezing and shortness of breath. Headache, dizziness, nausea and vomiting. Ingestion - Headache, dizziness, nausea and vomiting.

SECTION 4 — FIRST AID MEASURES

Skin Contact Remove contaminated clothing. Flush affected area with water for 15 minutes. Wash affected area with mild soap and water. Get medical attention if irritation develops or persists.
Eye Contact Immediately flush eyes with plenty of water. Remove any contact lenses (if easy to do) and continue flushing for 15 minutes. Get medical attention if irritation develops or persists.
Inhalation If breathing has stopped, begin artificial respiration. If breathing is laboured, give oxygen and seek medical attention.
Ingestion Immediately rinse mouth out with plenty of water. If within 30 minutes after ingestion, give person a small glass of water or milk. NEVER give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by a physician or poison center. Seek medical attention immediately.

SAMPLE FORMAT PROVIDED BY THE WORKERS' COMPENSATION BOARD OF BRITISH COLUMBIA

SECTION 5 – FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	
Means of Extinction Use flooding quantities of water. Do not use water jet. Wear SCBA and full protective clothing if product is involved in a fire.		
Flashpoint (°C) and Method NA	Upper Flammable Limit (% by volume) NA	Lower Flammable Limit (% by volume) NA
Autoignition Temperature (°C) ND	Explosion Data – Sensitivity to Impact	Explosion Data – Sensitivity to Static Discharge
Hazardous Combustion Products Gives off irritating or toxic gases in a fire.		
[NFPA]		

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures Contain the spill. Sweep up spilled material and use or dispose of in an approved manner. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment Avoid direct and prolonged contact with skin.
Storage Requirements Store in cool, dry area in closed container or package. Keep containers closed at all times. Do not reuse containers. Store away from incompatible materials. Use with proper personal protective equipment. Keep out of reach of children. Store away from other combustibles.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (specify)
Specific Engineering Controls (such as ventilation, enclosed process) Ventilate to control dust.
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type Eyes - Wear safety glasses to avoid eye contact. Do not wear contact lenses. Skin - Wear impermeable gloves to avoid skin contact.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid	Odour and Appearance Fine powder.	Odour Threshold (ppm) NA
Specific Gravity NA	Vapour Density (air = 1) ND	Vapour Pressure (mmHg) ND
Evaporation Rate ND	Boiling Point (°C) NA	Freezing Point (°C) NA
pH	Coefficient of Water/Oil Distribution	[Solubility in Water]

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Strong acids, strong alkalis, oxidizers, organics, other combustible materials.
Explosive when heated with ethoxyethyl alcohols. Hygroscopic, absorbs water or moisture from the air.	
Reactivity, and under what conditions? Moist, wet conditions. Incompatible materials, dust generation.	
Hazardous Decomposition Products Gives off irritating or toxic gases in a fire.	
Sulfur Oxides (SO_x), including sulfur oxide and sulfur dioxide, oxides of magnesium.	

SECTION 11 – TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	
Skin Contact - Irritation could occur with prolonged exposure to dry fertilizer or fertilizer solution. Contact with heated solution may cause thermal burns.	
Skin Absorption - Not known to be absorbed through the skin.	
Eye Contact - Irritation could occur if fertilizer solution is splashed in eyes or dry product contacts eyes. Heated material may cause thermal burns.	
Effects of Chronic Exposure	
Inhalation - <u>Very low vapour activity.</u> If heated could release ammonia gas. Can cause respiratory tract irritation.	
Ingestion - Excessive ingestion must occur before any health hazard results, effects of overexposure may include nausea, vomiting, diarrhea, weakness or convulsions.	
Irritancy of Product	
Skin Sensitization	Respiratory Sensitization
Carcinogenicity – IARC None known.	Carcinogenicity – ACGIH None known.
Reproductive Toxicity Magnesium sulfate has shown adverse reproductive effects in humans.	Teratogenicity Teratogenic effects have occurred in humans
Embryotoxicity None known.	Mutagenicity Mutation in bacteria.
Name of Synergistic Products/Effects ND	

SECTION 12 – ECOLOGICAL INFORMATION

[Aquatic Toxicity] Prevent entry into waterways, sewers, basements or confined areas.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Dispose of in non-crop areas away from waterways, in accordance with federal, provincial and local regulations.

SECTION 14 – TRANSPORT INFORMATION

Special Shipping Information Not regulated by TDG.		PIN
TDG	[DOT]	
[IMO]	[ICAO]	

SECTION 15 – REGULATORY INFORMATION

[WHMIS Classification]	[OSHA]
[SERA]	[TSCA]

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16 – OTHER INFORMATION

NA = Not Applicable.
ND = Not Determined.